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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,183	11/27/2006	Takakazu Shiomi	P30534	1989
	7590 09/30/201 & BERNSTEIN, P.L.	-	EXAMINER	
1950 ROLAND	CLARKE PLACE	-	SAMS, MICHELLE L	
RESTON, VA 20191			ART UNIT	PAPER NUMBER
			2628	
			NOTIFICATION DATE	DELIVERY MODE
			09/30/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

		Application No.	Applicant(s)			
Office Action Summary		10/598,183	SHIOMI ET AL.			
		Examiner	Art Unit			
		MICHELLE K. LAY	2628			
Period	The MAILING DATE of this communication app for Reply	ears on the cover sheet with the	correspondence ad	ldress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)[Responsive to communication(s) filed on 16 De	ecember 2010				
2a)[· · · · · <u></u>	action is non-final.				
	<i>,</i> —		set forth during the	e interview on		
0)L	An election was made by the applicant in response to a restriction requirement set forth during the interview on; the restriction requirement and election have been incorporated into this action.					
4)Γ	Since this application is in condition for allowar	· ·		e merits is		
•/-	closed in accordance with the practice under E	·				
Dienos	sition of Claims					
_	<u>_</u>					
6)[7) [8)[Claim(s) 20-22 is/are pending in the application. 5a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 20-22 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are object to restriction and/or election requirement.					
Applic	ation Papers					
 10) ☐ The specification is objected to by the Examiner. 11) ☑ The drawing(s) filed on 21 August 2006 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priorit	y under 35 U.S.C. § 119					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachm	nent(s)					
1)	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (PTO-948) formation Disclosure Statement(s) (PTO/SB/08) aper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate			

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/16/2010 has been entered.

Response to Amendment

The amendment filed 12/16/2010 has been entered and made of record. Claims 1-19 are cancelled. Claims 20-22 are pending.

Response to Arguments

Applicant's arguments, filed 12/16/2010, with respect to Matsumoto et al. (2003/0080958) in view of Dinwiddie et al. (5,434,590) have been fully considered and are persuasive. The 35 USC 103 of claims 20-22 has been withdrawn. However, upon further consideration, claims 20-22 have been further rejected under 35 USC 103 in view of Matsumoto et al. (2003/0080958) in view of Hirano (2002/0047917). Specifically, Hirano teaches superimposing a character layer (5) from character data (D2) (said *graphics images*), still image layer (6) from still image data (D3) (said *still images*) and moving image layer (7) from moving image data (said *video images*) supplied from the multi-screen processing unit (2) [0031].

Art Unit: 2628

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims **20-22** are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto et al. (2003/0080958) in view of Hirano (2002/0047917).

In regards to claim 20, Matsumoto teaches an image generating apparatus that superimposes a plurality of layers for display. Matsumoto teaches a program storage device readable by a computer for tangibly embodying a program of instructions executable by the computer to perform an image generating method [0043]. The program can be downloaded through a communication device (said *downloader operable to download the program*) and then executed via the image generating apparatus (said *executioner*) [0044]. The image generating apparatus (1) is provided with a drawing application processor (11), a graphics library (12), a drawing device (13), a graphics memory (16) and a superimposing unit (17) [Fig. 1; 0068]. The image generating apparatus (1) is designed so as to be able to generate images of the plurality of layers. In order that the drawing device (13) generates a 3D image of the first layer, a first frame buffer (16a) is installed within the graphics memory (16). In order to generate a 3D image of the second layer, a second frame buffer (16b) is installed within the graphics memory (16). Namely, the frame buffers whose number is corresponding

Art Unit: 2628

to the number of the layers are installed within the graphics memory (16) (said a provider operable to provide ... plurality of storage areas) [0069]. With reference to Fig. 3, the drawing application processor (11) generates a display list for a 3D image. The generated display list is stored as an object display list (1) of the graphics library (12) (said an order storage) [0079]. The display list execution device (123) (said **notifier**) controls the drawing device (13). When generating the 3D image, the display list execution device (123) instructs the scene object setting device (121) and the display list arranging device (122) to send the coordinate transformation information and the arrange or reconstructed display list (said *notification regarding the order stored*) to the drawing device (13) and further instructs the drawing device (13) to execute the image generating process [0076]. If the arranging or reconstruction of the display list is indicated, the display list received from the drawing application processor (11) is arranged or reconstructed (said graphic image is overwritten according to specified order) so as to be suitable for the drawing device (13) [0083]. Therefore, the display list provides the specified order to arrange or reconstruct the layers. The multiple layers within the multiple frame buffers (16a, b ...) are configured so as to be displayed on and outputted as one multiple-layer 3D image to a display unit, after they are superimposed by the superimposing unit (17) (said *a display operable to superimpose*) [0069; 0078]. Furthermore, as shown in Fig. 1, the system of Matsumoto teaches the different layers comprising the superimposed image are stored in a first frame buffer (16a), second frame buffer (16b) ... n frame buffer, depended on the n number of layers. The generated display list provides a specified order in which the layers will be

superimposed in [0079]. Thus, the different layers are stored in the order in which the layers will be superimposed as indicated by the display list (said *graphics images* stored in storage areas in accordance with specified order storage).

As indicated above, when generating the 3D image, the display list execution device (123) (said *request from executioner*) instructs the scene object setting device (121) and the display list arranging device (122) to send the coordinate transformation information and the arrange or reconstructed display list (said *notification regarding the order stored*) to the drawing device (13) and further instructs the drawing device (13) to execute the image generating process [0076]. If the arranging or reconstruction of the display list is indicated, the display list received from the drawing application processor (11) is arranged or reconstructed so as to be suitable for the drawing device (13) [0083]. Therefore, although Matsumoto does not explicitly teach changing the specified order, Matsumoto teaches the display list can be arranged or reconstructed. Therefore, it would have been obvious to one of ordinary skill in the art that the arranging or reconstruction of the display list can indicate a change to the display order (i.e., specified order) of the plurality of layers of the multiple layer image.

Hirano teaches an image processing method/system that generates a layer image signal and a display section signal for each layer when displaying signals in different formats simultaneously on a single screen [0027]. Hirano teaches a character layer (5) from character data (D2) (said *graphics images*), still image layer (6) from still image data (D3) (said *still images*) and moving image layer (7) from moving image data (said *video images*) supplied from the multi-screen processing unit (2) [0031].

The layer generating and media superimposing unit (3) supplies the layers to the CRT driver (8) [0041] where the image of the layer are thus pasted to the display area [0043]. The moving image, still image and character data may be inputted from a recording apparatus such as a digital camera or a personal computer (said *plurality of storing areas*) [0064].

It would have been obvious to one of ordinary skill in the art to modify the method/system of Matsumoto with the specified storage areas of Hirano because the different types of media require different size memory. Therefore, it is possible to provide more memory storage to the video storage areas where the still image memory does not require as much, utilizing the memory to its greatest capacity.

In regards to claim **21**, claim 21 recites similar limitations as claim 20 but in process form. Therefore, the same rationale used for claim 20 is applied. Furthermore, Matsumoto teaches the process implemented by the system described in the rationale of claim 20 within Fig. 3 [0079].

In regards to claim 22, claim 22 recites similar limitations as claim 20 but in manufacture form. Therefore, the same rationale used for claim 20 is applied. Furthermore, Matsumoto teaches the program storage device (said *computer readable storage medium*) readable by a computer for tangibly embodying a program of instructions executable by the computer to perform an image generating method [0043].

Application/Control Number: 10/598,183 Page 7

Art Unit: 2628

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle K. Lay whose telephone number is (571) 272-7661. The examiner can normally be reached on Monday-Friday 7:30a-3:30p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee M. Tung can be reached on (571) 272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michelle K. Lay/ Primary Examiner, Art Unit 2628 27 September 2011